Atty. Docket No.: 2001B056 Amdt. dated September 22, 2003

Reply to Office Action of May 21, 2003

Amendment to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (currently amended) A thermoplastic film comprising:
- (a) a core layer comprising a Ziegler-Natta entalyst polymerized polypropylene; polyethylene, polybutene, copolymers thereof or blends thereof wherein the core layer comprises the interior of the film;
- (b) a first transition layer comprising a polyolefin and a silicone additive, wherein the first transition layer is exterior to the core layer; and
- (c) a first skin layer comprising a polyolefin wherein the first skin layer is exterior to the first transition layer and the core layer; wherein the first transition layer is between the core layer and the first skin layer.
- 2. (currently amended) The film of elaim 1 claim 71 wherein the first skin layer has an exposed surface and wherein the exposed of the first skin layer is subjected to a treatment selected from the group consisting of corona discharge, plasma, and flame.
- 3. (currently amended) The film of elaim 1 claim 71 in which the silicone additive of the first transition layer is a polydialkylsiloxane.
- 4. (currently amended) The film of elaim 1 claim 71 in which the silicone additive of the first transition layer is a polydimethylsiloxane.
- 5. (currently amended) The film of claim 1 claim 71 in which a sufficient amount of silicone additive is incorporated in the first transition layer as to migrate through the first skin layer to an exposed surfaces of the first skin layer to confer a coefficient of friction of less than about 0.7.

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- 6. (currently amended) The film of elaim-1 claim 71 in which a sufficient amount of silicone additive is incorporated in the first transition layer as to migrate through the first skin layer to an exposed surfaces of the first skin layer to confer a coefficient of friction from about 0.2 to about 0.5.
- 7. (currently amended) The film of elaim 1 claim 71 wherein the first skin layer further comprises an anti-blocking agent and wherein at least a major proportion of the anti-blocking agent is in the form of particles of approximately spherical shape.
- 8. (original) The film of claim 7 wherein the anti-blocking agent is selected from the group consisting of silica, cross-linked methacrylate, and polymethylsilosiloxane.
- 9. (original) The film of claim 7 wherein the anti-blocking agent is silica particles wherein at least a major proportion of which are approximately spherical in shape.
- 10. (currently amended) The film of elaim-1 claim 71 wherein the first skin layer comprises a polymer selected from the group consisting of ethylene-propylene-butene-1 terpolymer, ethylene-propylene-random copolymer, propylene-butene-1 eepolymer, MDPE, LLDPE, LDPE, EVA, EMA, surlyn ionomer, propylene-butylene copolymers, and mixtures thereof.
- 11. (currently amended) The film of claim 10 wherein the <u>first skin layer comprises about 10 to about 90 weight percent</u> ethylene-propylene-butene-1 terpolymer component comprises from about 10 to about 90 weight percent the ethylene-propylene-random copolymer comprises from about 10 to about 90 weight percent the ethylene-propylene-random copolymer comprises from about 10 to about 90 weight percent of the blend.
- 12. (original) The film of claim 10 in which the ethylene-propylene-butene-1 terpolymer is obtained from the random interpolymerization of from about 1 to about 8 weight percent

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ethylene with from about 65 to 95 propylene with butene-1 making up the balance of the terpolymer.

- 13. (original) The film of claim 10 in which the ethylene-propylene-butene-1 terpolymer is obtained from the random interpolymerization of from about 3 to about 6 weight percent ethylene with from about 86 to about 93 weight percent propylene with butene-1 making up the balance of the terpolymer.
- 14. (original) The film of claim 10 in which the ethylene-propylene random copolymer is obtained from the random co-polymerization of from about 2 to about 8 weight percent ethylene with propylene making up the balance of the copolymer.
- 15. (original) The film of claim 10 in which the propylene-butene-1 copolymer is obtained from the random co-polymerization of from about 1 to about 16 weight percent butene-1 with propylene making up the balance of the copolymer.
- 16. (currently amended) The film of elaim 1 claim 71 wherein the core layer comprises a polymer selected from the group consisting of a polypropylene homopolymer, a high-density polyethylene, a linear low-density polyethylene, a ethylene-propylene copolymer, and mixtures thereof.
- 17. (currently amended) The film of elaim-1 claim 71 wherein the transition layer comprises a polymer selected from the group consisting of polypropylene homopolymer, medium-density polyethylene, linear low-density polyethylene, low-density polyethylene, ethylene-propylene copolymer, propylene-butene copolymer, ethylene-propylene-butene terpolymer, EVA, EMA, surlyn ionomer, and mixtures thereof.
- 18. (currently amended) The film of elaim 1 claim 71 in which the core layer comprises at least about 70 percent of the total thickness of the film.

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- 19. (original) The film of claim 18 in which the total thickness of the film is from about 0.35 to about 2.0 mils.
- 20. (currently amended) The film of elaim 1 claim 71 wherein the first transition layer has a thickness of about 0.2 to about 6 microns and wherein the first skin layer has a thickness of about 0.1 to about 3 microns.
- 21. (original) The film of claim 1 wherein the silicone additive has a viscosity greater than about 1,000,000 centistokes.
- 22. (original) The film of claim 1 wherein the silicone additive has a viscosity from about 10,000,000 centistokes to about 50,000,000 centistokes.
- 23. (original) The film of claim 1 wherein the silicone additive has a viscosity greater than about 1,000 centistokes.
- 24. (currently amended) The film of claim 1 claim 71 wherein the first transition layer comprises from about 0.2% to about 4% by weight of the silicone additive.
- 25. (currently amended) The film of elaim 1 claim 71 wherein the first transition layer comprises from about 0.6% to about 2% by weight of the silicone additive.
- 26. (currently amended) The film of claim 1 claim 71 wherein the first transition layer comprises from about 0.6% to about 2% by weight of the silicone additive, and wherein the silicone additive has a viscosity from about 10,000,000 centistokes to about 50,000,000 centistokes.

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- 27. (currently amended) The film of elaim 1 claim 71 wherein the exterior side of the first skin layer is coated with a coating selected from the group consisting of acrylics, PVDC, PVOH, and mixtures thereof.
- 28. (currently amended) The film of elaim 1 claim 71 wherein the exterior side of the first skin layer is vacuum metallized.
- 29. (currently amended) The film of elaim 1 claim 71 having a seal strength of at least about 200 grams per inch and having a coefficient of friction of at most about 0.65.
- 30. (currently amended) The film of elaim 1 claim 71 having a seal strength of at least about 240 grams per inch and having a coefficient of friction of at most about 0.4.
- 31. (currently amended) A method of making a film comprising the steps of:
- (1) coextruding a film through a die wherein the film comprises a core layer comprising Ziegler-Natta catalyst-polymerized-polypropylene homopolymer, polyethylene, polybutene, copolymers thereof or blends thereof, a polyelefin wherein the core layer comprises the interior of the film; a first transition layer comprising a polyelefin and a silicone additive, wherein the silicone additive has a viscosity from about 10,000,000 centistokes to about 50,000,000 centistokes, and wherein the first transition layer is exterior to the core layer; and a first skin layer comprising a polyelefin, and being substantially free of a silicone additive, wherein the first skin layer is exterior to the first transition layer, and wherein said the first skin layer is exterior to the core layer, and wherein the first skin layer;
 - (2) cooling/quenching the film; and
- (3) surface treating one or more exposed surfaces of the film with a corona, flame, or plasma treatment.

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- 32. (original) The method of claim 31 further comprising the step of orienting the film in the machine direction.
- 33. (original) The method of claim 32 further comprising the step of orienting the film in the transverse direction.
- 34. (currently amended) A thermoplastic film comprising:
- (a) a core layer comprising Ziegler Natta entalyst polymerized polypropylene homopolymer polyethylene, polybutene, copolymers thereof or blends thereof, wherein the core layer comprises the interior of the film;
- (b) a first tie layer exterior to and on one side of said core layer, said first tie layer comprising a silicone additive and a material selected from the group consisting of ethylene-propylene-butylene (EPB) terpolymers, ethylene-propylene (EP) copolymers, propylene-butylene random copolymers, linear low density polyethylenes, polypropylene homopolymer, and blends thereof;
- (c) a first skin layer exterior to said core layer and said first tie layer, and on the same side of said core as said first tie layer, wherein said first skin layer comprises material selected from the group consisting of ethylene-propylene-butylene (EPB) terpolymers, ethylene-propylene (EP) copolymers, propylene-butylene random copolymers, linear low density polyethylenes, and blends thereof; and
- (d) a second skin layer exterior to said core layer and on a side of said core opposite to said first tie layer and first skin layer, wherein said second skin layer comprises a material selected from the group consisting of ethylene-propylene-butylene (EPB) terpolymers, ethylene-propylene (EP) copolymers, propylene-butylene (PB) random copolymers, linear low density polyethylenes, high density polyethylenes, medium density polyethylenes, polypropylene homopolymers, and blends thereof.
- 35. (currently amended) The film according to <u>claim 72</u> elaim 34, wherein the second skin layer (d) is flame, plasma, or corona discharge treated.

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- 36. (currently amended) The film according to claim 72 claim 34, wherein the first skin layer (c) is flame, plasma, or corona discharge treated.
- 37. (currently amended) The film according to <u>claim 72</u> claim 34, wherein the first skin layer (c) is flame, plasma, or corona discharge treated.
- 38. (currently amended) A thermoplastic film comprising:
- (a) a core layer comprising Ziegler Natta catalyst-polymerized-polypropylene homopolymer polyethylene, polybutene, copolymers thereof or blends thereof, wherein the core layer comprises the interior of the film;
- (b) a first tie layer exterior to and on one side of said core layer, said first tie layer comprising a silicone additive and a material selected from the group consisting of ethylene-propylene-butylene (EPB) terpolymers, ethylene-propylene (EP) copolymers, propylene-butylene random copolymers, polypropylene homopolymer, and blends thereof;
- (c) a first skin layer exterior to said core layer and said first tie layer on the same side of said core as said first tie layer, wherein said first skin layer comprises material selected from the group consisting of ethylene-propylene-butylene (EPB) terpolymers, ethylene-propylene (EP) copolymers, propylene-butylene random copolymers, and blends thereof;
- (d) a second tie layer exterior to said core layer and on a side of said core layer opposite to said first tie layer and first skin layer, said second tie layer comprising a silicon silicone additive and a material selected from the group consisting of ethylene-propylene-butylene (EPB) terpolymers, ethylene-propylene (EP) copolymers, propylene-butylene random copolymers, polypropylene homopolymer, and blends thereof; and
- (e) a second skin layer exterior to said core layer and said second tie layer, and on a side of said core opposite to said first tie layer and first skin layer, wherein said second skin layer comprises a material selected from the group consisting of ethylene-propylene-butylene (EPB) terpolymers, ethylene-propylene (EP) copolymers, propylene-butylene (PB) random copolymers, and blends thereof.

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- 39. (currently amended) The film according to <u>claim 73</u> elaim 38, wherein the second skin layer (e) is flame, plasma, or corona discharge treated.
- 40. (currently amended) The film according to <u>claim 73</u> claim 38, wherein the first skin layer (c) is flame, plasma, or corona discharge treated.
- 41. (original) The film according to claim 39, wherein the first skin layer (c) is flame, plasma, or corona discharge treated.
- 42. (currently amended) A thermoplastic film comprising:
- (a) a core layer comprising Ziegler-Natta eatalyst-polymerized polypropylene homopolymer polyethylene, polybutene, copolymers thereof or blends thereof, wherein the core layer comprises the interior of the film;
- (b) a first tie layer exterior to and on one side of said core layer, said first tie layer comprising a silicone additive and a material selected from the group consisting of ethylene-propylene-butylene (EPB) terpolymers, ethylene-propylene (EP) copolymers, propylene-butylene random copolymers, polypropylene homopolymer, and blends thereof;
- (c) a first skin layer exterior to said core layer and said first tie layer on the same side of said core as said first tie layer, wherein said first skin layer comprises material selected from the group consisting of ethylene-propylene-butylene (EPB) terpolymers, ethylene-propylene (EP) copolymers, propylene-butylene random copolymers, and blends thereof;
- (d) a second tie layer exterior to said core layer and on a side of said core layer opposite to said first tie layer and first skin layer, said second tie layer comprising a material selected from the group consisting of polypropylene homopolymer, maleic anhydride grafted polypropylene, and blends thereof; and
- (e) a second skin layer exterior to said core layer and said second tie layer, and on a side of said core opposite to said first tie layer and first skin layer, wherein said second skin layer comprises a material selected from the group consisting of amorphous polyamides, EVOH copolymers, high density polyethylenes, and blends thereof.

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- 43. (currently amended) The film according to claim 74 elaim 42, wherein the second skin layer (e) is flame, plasma, or corona discharge treated.
- 44. (currently amended) The film according to claim 74 claim 42, wherein the first skin layer (c) is flame, plasma, or corona discharge treated.
- 45. (currently amended) The film according to claim 74 elaim 42, wherein the first skin layer (c) is flame, plasma, or corona discharge treated.
- 46. (currently amended) The film of claim 74 claim 42 wherein the exterior side of the second skin layer is vacuum metallized with aluminum.
- 47. (currently amended) The film of claim 43, wherein the the exterior side of the second skin layer is vacuum metallized with aluminum.
- 48. (currently amended) The film of claim 71 elaim 1, wherein said core layer further comprises an additive selected from the group consisting of:

an opacifying agent selected from the group consisting of iron oxide, carbon black, aluminum, TiO₂, talc, or combinations thereof, said opacifying agent present in said core layer in the range of from about 1 wt% to about 15 wt%, based on the total weight of the core layer;

a material selected from the group consisting of polybutene teraphthalate, nylon, solid glass spheres, hollow glass spheres, metal beads, metal spheres, ceramic spheres, CaCO₃, or combinations thereof, present in said core layer in the range of from about 1 wt% to about 20 wt%, said material having a mean particle size in the range of from 0.1 - $10 \mu m$;

a hydrocarbon wax having a melting point in the range of from about 52°C to about 88°C, and a molecular weight in the range of about 300 to about 800;

a hydrocarbon resin, said resin being one of petroleum resin, terpene resin, styrene resin, cyclopentadiene resin, saturated alicyclic resin, or combinations thereof, said resin having an average molecular weight of less than about 5000, having a softening point in the range of from

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about 60° to about 180° C, said resin present in said core layer at less than about 15 wt%; and combinations thereof.

49. (currently amended) The film of claim 72 elaim 34, wherein said core layer further comprises an additive selected from the group consisting of:

an opacifying agent selected from the group consisting of iron oxide, carbon black, aluminum, TiO₂, tale, or combinations thereof, said opacifying agent present in said core layer in the range of from about 2 wt% to about 4 wt%, based on the total weight of the core layer;

a material selected from the group consisting of polybutene teraphthalate, nylon, solid glass spheres, hollow glass spheres, metal beads, metal spheres, ceramic spheres, $CaCO_3$, or combinations thereof, present in said core layer in the range of from about 1 wt% to about 20 wt%, said material having a mean particle size in the range of from 0.1 - 10 μ m;

a hydrocarbon wax having a melting point in the range of from about 52° C to about 88° C, and a molecular weight in the range of about 300 to about 800;

a hydrocarbon resin, said resin being one of petroleum resin, terpene resin, styrene resin, cyclopentadiene resin, saturated alicyclic resin, or combinations thereof, said resin having an average molecular weight of less than about 5000, having a softening point in the range of from about 60° to about 180° C, said resin present in said core layer at less than about 15 wt%; and combinations thereof.

50. (currently amended) The film of claim 73 elaim 38, wherein said core layer further comprises an additive selected from the group consisting of:

an opacifying agent selected from the group consisting of iron oxide, carbon black, aluminum, TiO₂, talc, or combinations thereof, said opacifying agent present in said core layer in the range of from about 2 wt% to about 4 wt%, based on the total weight of the core layer;

a material selected from the group consisting of polybutene teraphthalate, $CaCO_3$, or combinations thereof, present in said core layer in the range of from about 2 wt% to about 10 wt%, said material having a mean particle size in the range of from 0.1 - 10 μ m;

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a hydrocarbon resin, said resin being one of petroleum resin, terpene resin, styrene resin, cyclopentadiene resin, saturated alicyclic resin, or combinations thereof, said resin having an average molecular weight of less than about 5000, having a softening point in the range of from about 60° to about 180° C, said resin present in said core layer at less than about 10 wt%; and combinations thereof.

51. (currently amended) The film of claim 74 elaim 42, wherein said core layer further comprises from about 2 wt% to about 10 wt% of polybutene teraphthalate, said polybutene teraphthalate having a mean particle size in the range of from about 0.1 to about 10 μm.

52. (original) A thermoplastic film comprising:

- (a) a core layer comprising a polypropylene homopolymer wherein the core layer comprises the interior of the film;
- (b) a first transition layer comprising a material selected from the group consisting of ethylene-propylene-butylene (EPB) terpolymers, ethylene-propylene (EP) copolymers, propylene-butylene random copolymers, linear low density polyethylenes, polypropylene homopolymer, and blends thereof; and a silicone additive, wherein the first transition layer is exterior to the core layer, and wherein the silicone additive has a viscosity greater than about 1,000,000 centistokes;
- (c) a first skin layer comprising a material selected from the group consisting of ethylene-propylene-butylene (EPB) terpolymers, ethylene-propylene (EP) copolymers, propylene-butylene random copolymers, linear low density polyethylenes, and blends thereof, wherein the first transition layer is between the first skin layer and the core layer; and
- (d) a second skin layer comprising a material selected from the group consisting of ethylene-propylene-butylene (EPB) terpolymers, ethylene-propylene (EP) copolymers, propylene-butylene (PB) random copolymers, linear low density polyethylenes, high density polyethylenes, medium density polyethylenes, polypropylene homopolymers, amorphous polyamides, EVOH copolymers and blends thereof, wherein the second skin layer is exterior to said core layer and on a side of said core opposite to said first transition layer and first skin layer.

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53. (original) The film of claim 52 wherein the silicone additive has a viscosity from about 10,000,000 to about 50,000,000 centistokes.

54-55 (cancelled)

- 56. (currently amended) The film of claim 52 further comprising a second transition layer, wherein said second transition layer is between said core layer and said second skin layer, and wherein said second transition layer comprises a silicone additive with a viscosity greater than about 1,000,000 centistokes and a material selected from the group consisting of ethylene-propylene-butylene (EPB) terpolymers, ethylene-propylene (EP) copolymers, propylene-butylene random copolymers, polypropylene homopolymer, maleic anhydride grafted polypropylene, and blends thereof.
- 57. (original) The film of claim 56 wherein the silicone additive has a viscosity from about 10,000,000 to about 50,000,000 centistokes.
- 58. (currently amended) The film of claim 52 <u>further comprising</u> a second transition layer, wherein said second transition layer is between said core layer and said second skin layer, and wherein said second transition layer comprises a material selected from the group consisting of polypropylene homopolymer, maleic anhydride grafted polypropylene, and blends thereof.
- 59. (original) The film of claim 58 wherein the silicone additive has a viscosity from about 10,000,000 to about 50,000,000 centistokes;
- 60-68. (cancelled)
- 69. (new) A thermoplastic film comprising:
- (a) a core layer comprising a Ziegler-Natta catalyst polymerized polypropylene
 wherein the core layer comprises the interior of the film;

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- (b) a first transition layer comprising a polyolefin and a silicone additive, wherein the first transition layer is exterior to the core layer; and
- (c) a first skin layer comprising a polymer selected from the group consisting of EVA, EMA, surlyn ionomer, EVOH copolymer, amorphous polyamide, and mixtures thereof; wherein the first skin layer is exterior to the first transition layer and the core layer; wherein the first transition layer is between the core layer and the first skin layer.

70. (new) A thermoplastic film comprising:

- (a) a core layer comprising a Ziegler-Natta catalyst polymerized polypropylene wherein the core layer comprises the interior of the film;
- (b) a first transition layer comprising a polymer selected from the group consisting of EVA, EMA, surlyn ionomer, maleic anhydride grafted polyolefins, and mixtures thereof; and a silicone additive, wherein the first transition layer is exterior to the core layer; and
- (c) a first skin layer comprising a polyolefin wherein the first skin layer is exterior to the first transition layer and the core layer; wherein the first transition layer is between the core layer and the first skin layer.

- (a) a core layer comprising a Ziegler-Natta catalyst polymerized polypropylene, polyethylene, polybutene, copolymers thereof or blends thereof, wherein the core layer comprises the interior of the film;
- (b) a first transition layer comprising a polyolefin and a silicone additive, wherein the first transition layer is exterior to the core layer; and
- (c) a first skin layer comprising a polyolefin wherein the first skin layer is exterior to the first transition layer and the core layer; wherein the first transition layer is between the core layer and the first skin layer, and wherein the silicone additive has a viscosity from about 10,000,000 centistokes to about 50,000,000 centistokes.

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72. (new) A thermoplastic film comprising:

- (a) a core layer comprising a Ziegler-Natta catalyst polymerized polypropylene homopolymer, polyethylene, polybutene, maleic anhydride grafted polypropylene, copolymers thereof or blends thereof, wherein the core layer comprises the interior of the film;
- (b) a first transition layer comprising a material selected from the group consisting of ethylene-propylene-butylene (EPB) terpolymers, ethylene-propylene (EP) copolymers, propylene-butylene random copolymers, linear low density polyethylenes, polypropylene homopolymer, and blends thereof; and a silicone additive, wherein the first transition layer is exterior to the core layer, and wherein the silicone additive has a viscosity from about 10,000,000 centistokes to about 50,000,000 centistokes;
- (c) a first skin layer comprising a material selected from the group consisting of ethylene-propylene-butylene (EPB)terpolymers, ethylene-propylene (EP) copolymers, propylene-butylene random copolymers, linear low density polyethylenes, HDPE, MDPE, and blends thereof, wherein the first transition layer is between the first skin layer and the core layer; and
- (d) a second skin layer comprising a material selected from the group consisting of ethylene-propylene-butylene (EPB) terpolymers, ethylene-propylene (EP) copolymers, propylene- butylene (PB) random copolymers, linear low density polyethylenes, high density polyethylenes, medium density polyethylenes, polypropylene homopolymers, amorphous polyamides, EVOH copolymers and blends thereof, wherein the second skin layer is exterior to said core layer and on a side of said core opposite to said first transition layer and first skin layer.

- (a) a core layer comprising Ziegler-Natta catalyst-polymerized-polypropylene homopolymer, polyethylene, polybutene, copolymers thereof or blends thereof, wherein the core layer comprises the interior of the film;
- (b) a first tie layer exterior to and on one side of said core layer, said first tie layer comprising a silicone additive and a material selected from the group consisting of ethylene-propylene-butylene (EPB) terpolymers, ethylene-propylene (EP) copolymers, propylene-

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butylene random copolymers, polypropylene homopolymer, and blends thereof, and wherein the silicone additive has a viscosity from about 10,000,000 centistokes to about 50,000,000 centistokes;

- (c) a first skin layer exterior to said core layer and said first tie layer on the same side of said core as said first tie layer, wherein said first skin layer comprises material selected from the group consisting of ethylene-propylene-butylene (EPB) terpolymers, ethylene-propylene (EP) copolymers, propylene-butylene random copolymers, HDPE, MDPE, LLDPE, PP homopolymer, and blends thereof;
- (d) a second tie layer exterior to said core layer and on a side of said core layer opposite to said first tie layer and first skin layer, said second tie layer comprising a material selected from the group consisting of ethylene-propylene-butylene (EPB) terpolymers, ethylene-propylene (EP) copolymers, propylene-butylene random copolymers, polypropylene homopolymer, and blends thereof; and
- (e) a second skin layer exterior to said core layer and said second tie layer, and on a side of said core opposite to said first tie layer and first skin layer, wherein said second skin layer comprises a material selected from the group consisting of ethylene-propylene-butylene (EPB) terpolymers, ethylene-propylene (EP) copolymers, propylene-butylene (PB) random copolymers, HDPE, MDPE, LLDPE, PP homopolymer, and blends thereof.

- (a) a core layer comprising Ziegler-Natta catalyst-polymerized-polypropylene homopolymer, polyethylene, polybutene, copolymers thereof or blends thereof, wherein the core layer comprises the interior of the film;
- (b) a first tie layer exterior to and on one side of said core layer, said first tie layer comprising a silicone additive and a material selected from the group consisting of ethylene-propylene-butylene (EPB) terpolymers, ethylene-propylene (EP) copolymers, propylene-butylene random copolymers, polypropylene homopolymer, and blends thereof, and wherein the silicone additive has a viscosity from about 10,000,000 centistokes to about 50,000,000 centistokes;

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- (c) a first skin layer exterior to said core layer and said first tie layer on the same side of said core as said first tie layer, wherein said first skin layer comprises material selected from the group consisting of ethylene-propylene-butylene (EPB) terpolymers, ethylene-propylene (EP) copolymers, propylene-butylene random copolymers, HDPE, MDPE, LLDPE, PP homopolymer, and blends thereof;
- (d) a second tie layer exterior to said core layer and on a side of said core layer opposite to said first tie layer and first skin layer, said second tie layer comprising a material selected from the group consisting of polypropylene homopolymer, maleic anhydride grafted polypropylene, and blends thereof; and
- (e) a second skin layer exterior to said core layer and said second tie layer, and on a side of said core opposite to said first tie layer and first skin layer, wherein said second skin layer comprises a material selected from the group consisting of amorphous polyamides, EVOH copolymers, high density polyethylenes, and blends thereof.

- (a) a core layer comprising a polypropylene homopolymer wherein the core layer comprises the interior of the film;
- (b) a first transition layer comprising a material selected from the group consisting of ethylene-propylene-butylene (EPB) terpolymers, ethylene-propylene (EP) copolymers, propylene-butylene random copolymers, linear low density polyethylenes, polypropylene homopolymer, and blends thereof; and a silicone additive, wherein the first transition layer is exterior to the core layer, and wherein the silicone additive has a viscosity from about 10,000,000 to about 50,000,000 centistokes;
- (c) a first skin layer comprising a material selected from the group consisting of ethylene-propylene-butylene (EPB)terpolymers, ethylene-propylene (EP) copolymers, propylene-butylene random copolymers, linear low density polyethylenes, HDPE, PP homopolymer, and blends thereof, wherein the first transition layer is between the first_skin layer and the core layer;

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- (d) a second skin layer comprising a material selected from the group consisting of ethylene-propylene-butylene (EPB) terpolymers, ethylene-propylene (EP) copolymers, propylene-butylene (PB) random copolymers, linear low density polyethylenes, high density polyethylenes, medium density polyethylenes, polypropylene homopolymers, amorphous polyamides, EVOH copolymers and blends thereof, wherein the second skin layer is exterior to said core layer and on a side of said core opposite to said first transition layer and first skin layer; and.
- (e) a second transition layer, wherein said second transition layer is between said core layer and said second skin layer, and wherein said second transition layer comprises a silicone additive and a material selected from the group consisting of ethylene-propylene-butylene (EPB) terpolymers, ethylene-propylene (EP) copolymers, propylene-butylene random copolymers, polypropylene homopolymer, and blends thereof.

- (a) a core layer comprising a polypropylene homopolymer wherein the core layer comprises the interior of the film;
- (b) a first transition layer comprising a material selected from the group consisting of ethylene-propylene-butylene (EPB) terpolymers, ethylene-propylene (EP) copolymers, propylene-butylene random copolymers, linear low density polyethylenes, polypropylene homopolymer, and blends thereof; and a silicone additive, wherein the first transition layer is exterior to the core layer, and wherein the silicone additive has a viscosity from about 10,000,000 to about 50,000,000 centistokes;
- (c) a first skin layer comprising a material selected from the group consisting of ethylene-propylene-butylene (EPB)terpolymers, ethylene-propylene (EP) copolymers, propylene-butylene random copolymers, linear low density polyethylenes, and blends thereof, wherein the first transition layer is between the first skin layer and the core layer;
- (d) a second skin layer comprising a material selected from the group consisting of ethylene-propylene-butylene (EPB) terpolymers, ethylene-propylene (EP) copolymers, propylene-butylene (PB) random copolymers, linear low density polyethylenes, high density

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polyethylenes, medium density polyethylenes, polypropylene homopolymers, amorphous polyamides, EVOH copolymers and blends thereof, wherein the second skin layer is exterior to said core layer and on a side of said core opposite to said first transition layer and first skin layer; and.

(e) a second transition layer, wherein said second transition layer is between said core layer and said second skin layer, and wherein said second transition layer comprises a material selected from the group consisting of polypropylene homopolymer, maleic anhydride grafted polypropylene, and blends thereof.

77. (new) The film of claim 73 wherein the second tie layer further comprises a silicone additive from about 10,000,000 centistokes to about 50,000,000 centistokes.